CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.15/ME/CSR-04/013b/CEMENT/2016-17 Date: 18.04.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. S.M. Eregowda,** #288, 5th Cross, 6th A Main Road, Bhuvaneshwarinagara, Dasarahalli, Bangalore – 57.
*NAME OF THE WORK	:	Construction of culvert near Eagle bakery Ganesha saw Mill road in Dasarahslli Ward No.15, BBMP, Bangalore.
*REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 15.04.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	15.04.2016
PERIOD OF TESTING	:	15.04.2016 to 18.04.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH. I.A.
Chief Executive Officer

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Job No.: CTCE/BBMP/W.No.15/ME/CSR-04/013b/SAND-Gradation/2016-17 : 18.04.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. S.M. Eregowda,**
#288, 5th Cross, 6th A Main Road, Bhuvaneshwarinagara, Dasarahalli, Bangalore – 57.

*** Name of Work** : Construction of culvert near Eagle bakery Ganesha saw Mill road in Dasarahslli Ward No.15, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 15.04.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 15.04.2016

Date of Testing : 18.04.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.00	90-100	90-100	90-100	95-100
2.36	78.50	60-95	75-100	85-100	95-100
1.18	58.70	30-70	55-90	75-100	90-100
600 Micron	32.90	15-34	35-59	60-79	80-100
300 Micron	14.90	5-20	8-30	12-40	15-50
150 Micron	6.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.15/ME/CSR-04/013b/AGG/GR/2016-17 : 18.04.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. S.M. Eregowda,**
#288, 5th Cross, 6th A Main Road, Bhuvaneshwarinagara, Dasarahalli, Bangalore – 57.

*** Name of Work** : Construction of culvert near Eagle bakery Ganesha saw Mill road in Dasarahslli Ward No.15, BBMP, Bangalore.

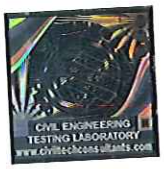
Reference : BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 15.04.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 15.04.2016

Date of Testing : 18.04.2016



Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.00	95-100	85-100
20	44.50	30-70	0-20
10	19.40	10-35	0-5
4.75	4.35	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.15/ME/STEEL/2016-17 25.04.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. S.M. Eregowda,** #288, 5th Cross, 6th A Main Road, Bhuvaneshwarinagara, Dasarahalli, Bangalore – 57.
Name of the Work	:	Construction of culvert near Eagle bakery Ganesha saw Mill road in Dasarahslli Ward No.15, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 15.04.2016
Date of Test	:	25.04.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.15/ME/STEEL/2016-17 25.04.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. S.M. Eregowda,** #288, 5th Cross, 6th A Main Road, Bhuvaneshwarinagara, Dasarahalli, Bangalore – 57.
Name of the Work	:	Construction of culvert near Eagle bakery Ganesha saw Mill road in Dasarahslli Ward No.15, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 15.04.2016
Date of Test	:	25.04.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.58	520	563	13.60	O.K	O.K

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Job No.: CTCE/BBMP/W.No.15/ME/CSR-04/013b/CUBE/2016-17 25.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. S.M. Eregowda,**
#288, 5th Cross, 6th A Main Road, Bhuvaneshwarinagara, Dasarahalli, Bangalore – 57.

*** Name of the work** : Construction of culvert near Eagle bakery Ganesha saw Mill road in Dasarahslli Ward No.15, BBMP, Bangalore.

*** Reference** : BBMP/DZ/AEE/TDSD/PR/2016-17 Dated: 15.04.2016

*** Sample ID** : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{25}

Compressive Strength as on : 28th day

Sample Received on : 25.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.04.2016	25.05.2016	8.135	605.2	26.90
2	27.04.2016	25.05.2016	8.260	620.3	27.57
3	27.04.2016	25.05.2016	8.380	635.2	28.23

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